

Figure 1

Milan S. BLAKE et al.  
IMPROVED METHOD FOR THE  
PRODUCTION OF BACTERIAL TOXINS  
37974-0059

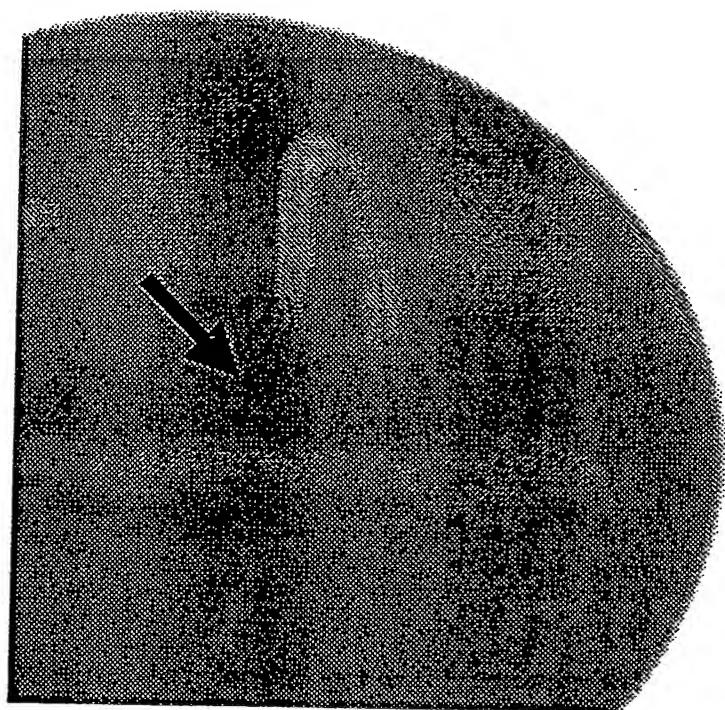


Figure 2

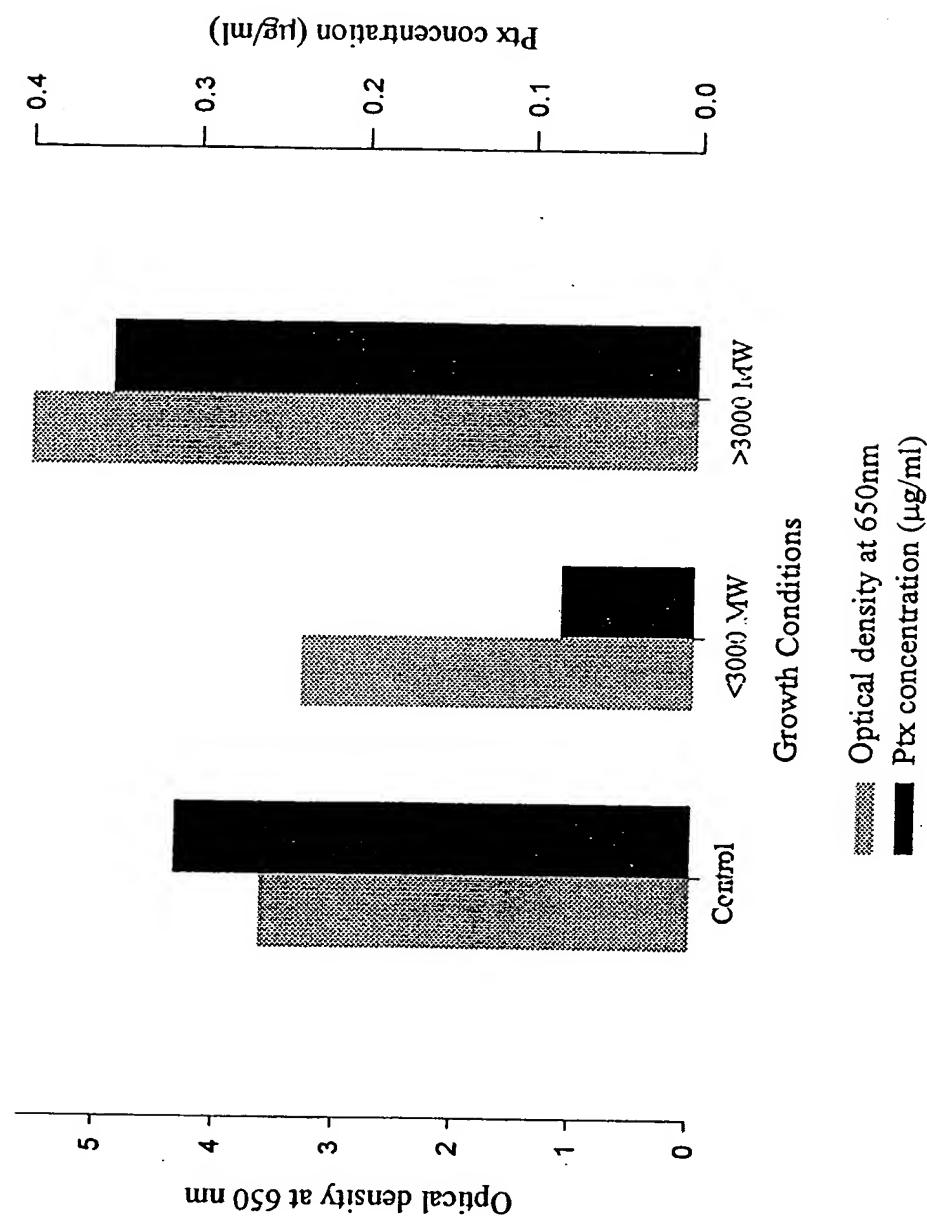


Figure 3

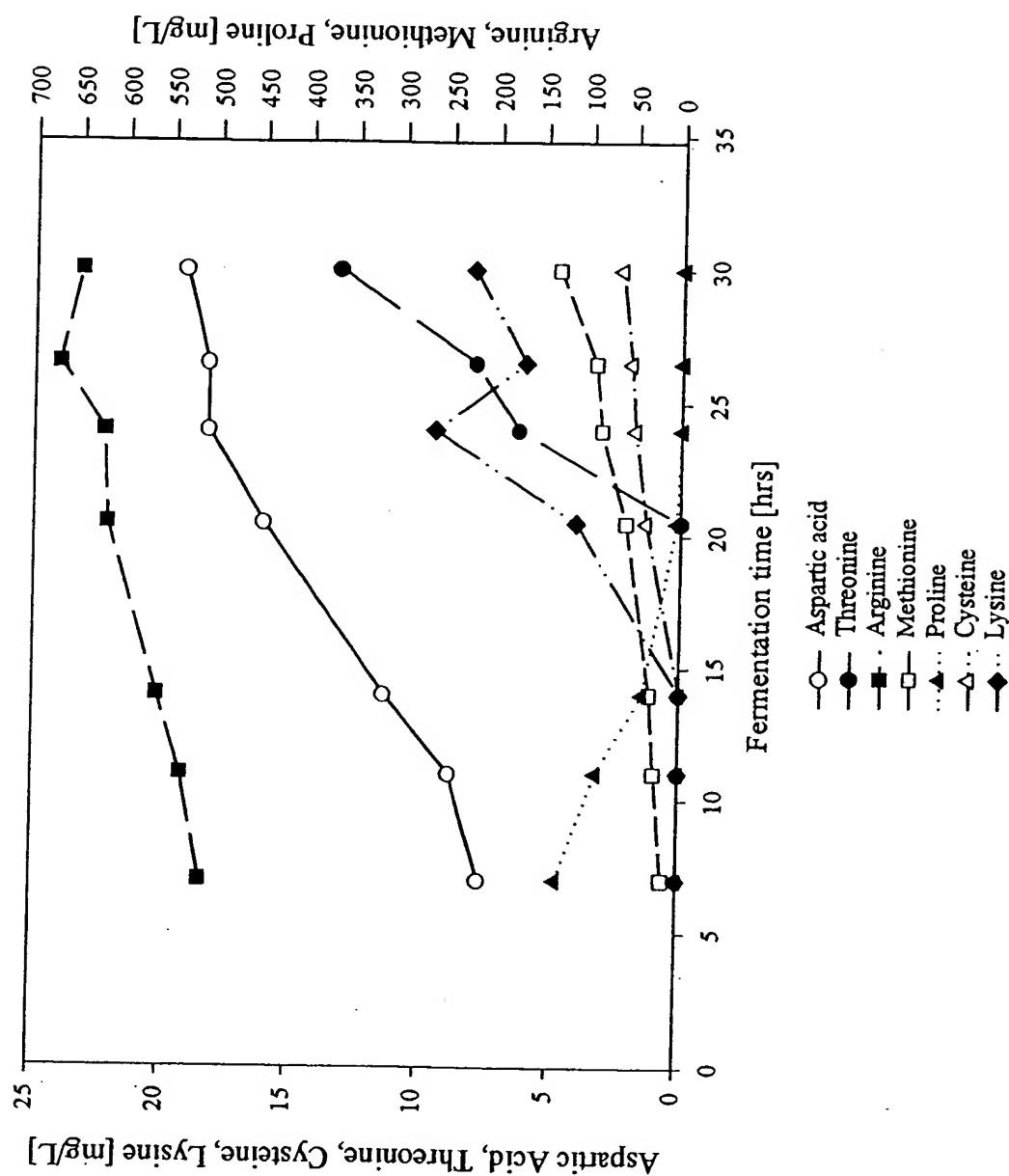


Figure 4A

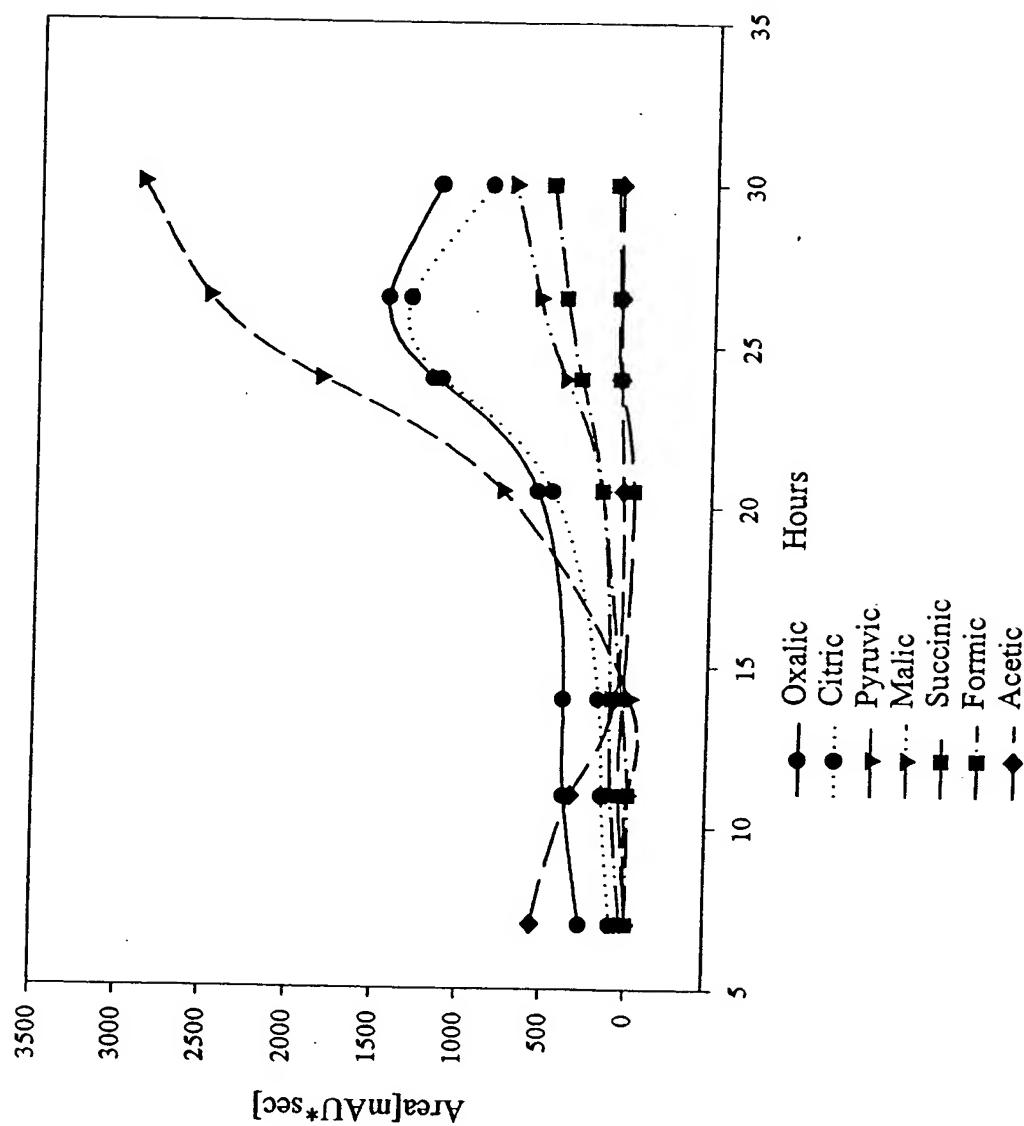


Figure 4B

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IMPROVED METHOD FOR THE  
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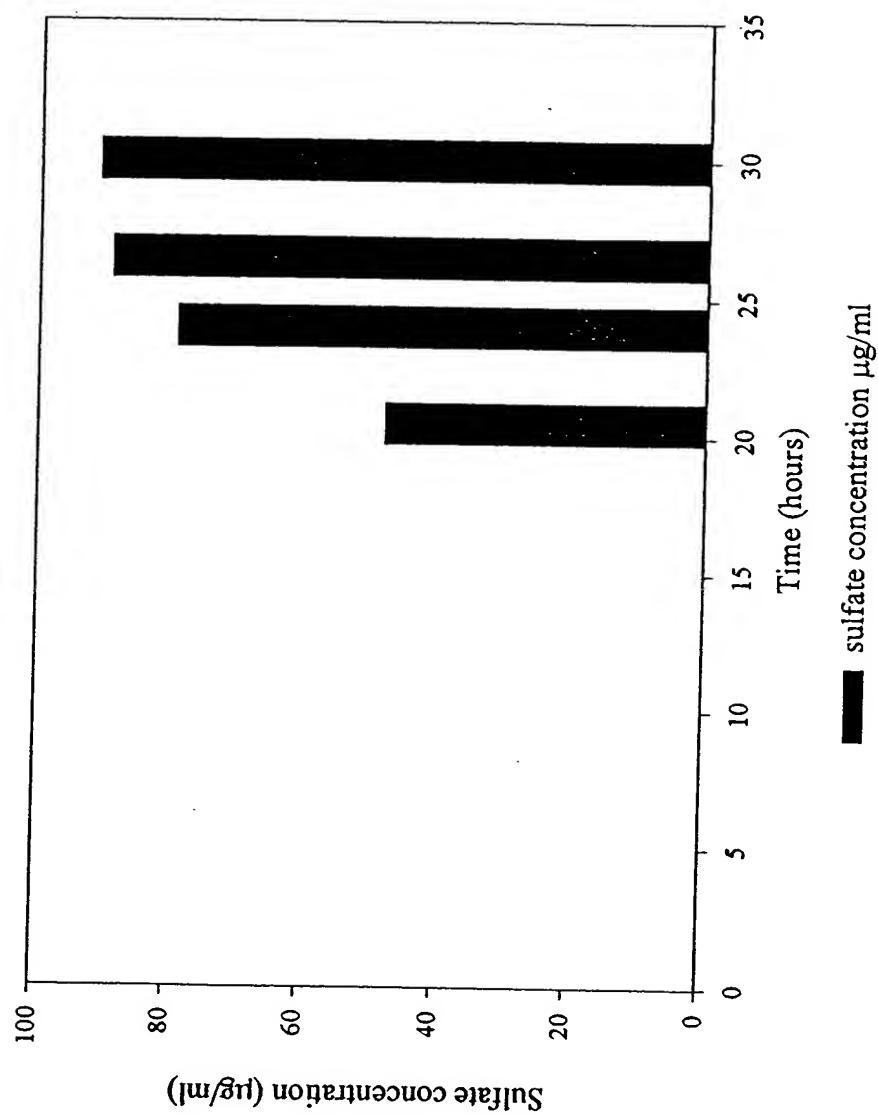
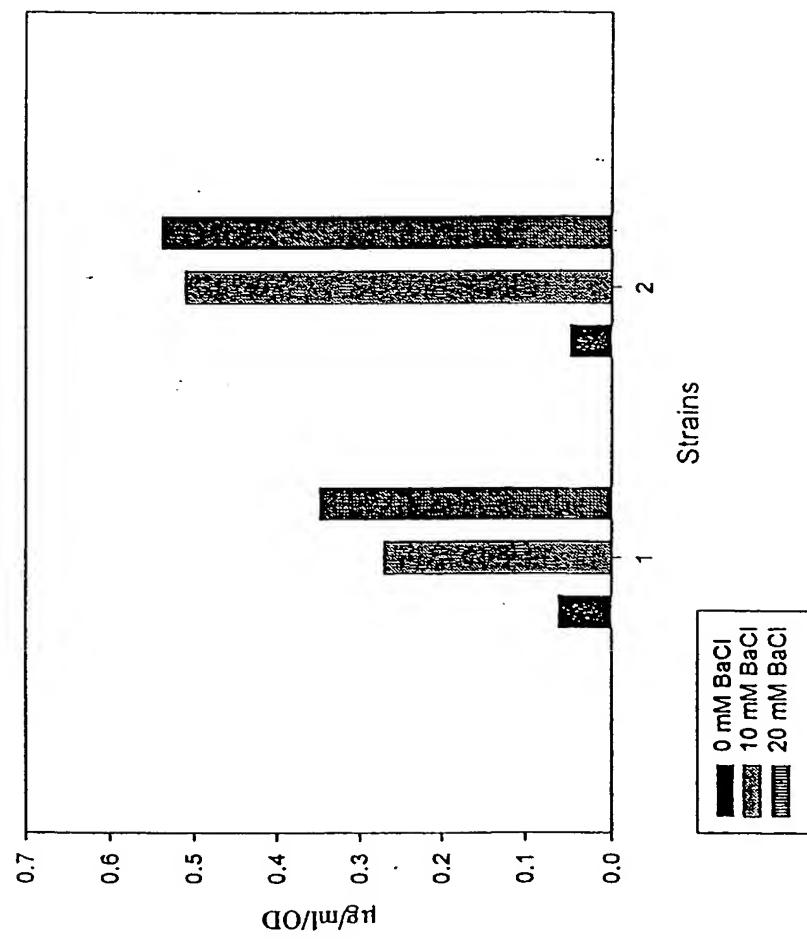


Figure 5

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Figure 6



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Figure 7

	10	20	30	40	50	
DSFBP314.AMI	1 MSNRPIYLDY	SATTPVDPDV	VEKMPIWLYE	SFGNPASRSH	AFGWEAEDAV	50
DSFBP536.AMI	1 MSNPPIYLDY	SATTPVDPDV	VEKMPIWLYE	SFGNPASRSH	AFGWEAEDAV	50
	60	70	80	90	100	
DSFBP314.AMI	51 EKAREEVAKL	VNADPREIVW	TSGATESDNL	AIKGAAANFYA	ERGKHITVK	100
DSFBP536.AMI	51 EKAREEVAKL	VNADPREIVW	TSGATESDNL	AIKGAAANFYA	ERGKHITVK	100
	110	120	130	140	150	
DSFBP314.AMI	101 TEHKAVLDTC	RELERQGFEV	TYLDVQDDGL	LSLDAFKAL	RPDILVSVM	150
DSFBP536.AMI	101 TEHKAVLDTC	RELERQGFEV	TYLDVQDDGL	LSLDAFKAL	RPDILVSVM	150
	160	170	180	190	200	
DSFBP314.AMI	151 MVNNEIGVIQ	DIAALGEICR	EKGIIIFHVDA	AQATGKVEID	LQKLKVDLMS	200
DSFBP536.AMI	151 MVNNEIGVIQ	DIAALGEICR	EKGIIIFHVDA	AQATGKVEID	LQKLKVDLMS	200
	210	220	230	240	250	
DSFBP314.AMI	201 FSAHKTYGPK	GIGALYVRRK	PRVRIEAQMH	GGGHERGFRS	GTLATHQIVG	250
DSFBP536.AMI	201 FSAHKTYGPK	GIGALYVRRK	PRVRIEAQMH	GGGHERGFRS	GTLATHQIVG	250
	260	270	280	290	300	
DSFBP314.AMI	251 MGEAFRLARE	EMGTENERVR	MLRDRLLAGL	TQIEEVYVNG	SMEHRVPHN	300
DSFBP536.AMI	251 MGEAFRLARE	EMGTENERVR	MLRDRLLAGL	TQIEEVYVNG	SMEHRVPHN	300
	310	320	330	340	350	
DSFBP314.AMI	301 NISFNYVEGE	SLIMAIKELA	VSSGSACTSA	SLEPSYVLRA	LGRNDELAHS	350
DSFBP536.AMI	301 NISFNYVEGE	SLIMAIKELA	VSSGSACTSA	SLEPSYVLRA	LGRNDELAHS	350
	360	370	380	390	400	
DSFBP314.AMI	351 SIRFTLGRFT	TEQEIDFTIE	LIKSRVGKLR	DMSPLWEMAQ	EGIDLNSVQW	400
DSFBP536.AMI	351 SIRFTLGRFT	TEQEIDFTIE	LIKSRVGKLR	DMSPLWEMAQ	EGIDLNSVQW	400
	410	420	430	440	450	
DSFBP314.AMI	401 AAH*	.....	.....	.....	.....	450
DSFBP536.AMI	401 AAH*	.....	.....	.....	.....	450
	10	20	30	40	50	
DSF314.DNA	1 ATGAGCAATC	GCCCCATCTA	CCTGGACTAC	TCGGCTACCA	CGCCGGTCGA	50
DSF536F1.DNA	1 ATGAGCAATC	GCCCCATCTA	CCTGGACTAC	TCGGCTACCA	CGCCGGTCGA	50
DSF536R1.DNA	1 -----	-----	-----	-----	-----	50
DSF536I1.DNA	1 -----	-----	-----	-----	-----	50
DSF536I2.DNA	1 -----	-----	-----	-----	-----	50
	60	70	80	90	100	
DSF314.DNA	51 CCCGAGCGTG	GTCGAGAAAA	TGATTCCTCG	GTTGTACGAG	AGTTTCGGCA	100
DSF536F1.DNA	51 CCCGAGCGTG	GTCGAGAAAA	TGATTCCTCG	GTTGTACGAG	AGTTTCGGCA	100
DSF536R1.DNA	51 -----	-----	-----	-----	-----	100
DSF536I1.DNA	51 -----	-----	-----	-----	-----	100
DSF536I2.DNA	51 -----	-----	-----	-----	-----	100
	110	120	130	140	150	
DSF314.DNA	101 ATCCGGCTC	GCGCAGCCAC	GCCTTGGCT	GGGAAGCCGA	GGACCGGGTC	150
DSF536F1.DNA	101 ATCCGGCTC	GCGCAGCCAC	GCCTTGGCT	GGGAAGCCGA	GGACCGGGTC	150
DSF536R1.DNA	101 -----	-----	-----	-----	-----	150
DSF536I1.DNA	101 -----	-----	-----	-----	-----	150
DSF536I2.DNA	101 -----	-----	-----	-----	-----	150
	160	170	180	190	200	
DSF314.DNA	151 GAGAAGGCC	GCGAGGAAGT	TGCAAGCTG	GTCAACGCC	ATCCGCGCGA	200
DSF536F1.DNA	151 GAGAAGGCC	GCGAGGAAGT	TGCAAGCTG	GTCAACGCC	ATCCGCGCGA	200
DSF536R1.DNA	151 -----	-----	-----	-----	-----	200
DSF536I1.DNA	151 -----	-----	-----	-----	-----	200
DSF536I2.DNA	151 -----	-----	-----	-----	-----	200
	210	220	230	240	250	
DSF314.DNA	201 GATCGCTCGG	ACTTCCGGCG	CTACCGAGTC	GGACAACTCG	GCCATCAAGG	250
DSF536F1.DNA	201 GATCGCTCGG	ACTTCCGGCG	CTACCGAGTC	GGACAACTCG	GCCATCAAGG	250
DSF536R1.DNA	201 -----	-----	-----	-----	-----	250
DSF536I1.DNA	201 -----	-----	-----	-----	-----	250
DSF536I2.DNA	201 -----	-----	-----	-----	-----	250
	260	270	280	290	300	
DSF314.DNA	251 GCGCGGCCAA	TTTCTACGCC	GAGCGGGCA	AGCACATCAT	TACCGTCAAG	300
DSF536F1.DNA	251 GCGCGGCCAA	TTTCTACGCC	GAGCGGGCA	AGCACATCAT	TACCGTCAAG	300
DSF536R1.DNA	251 -----	-----	-----	-----	-----	300
DSF536I1.DNA	251 -----	-----	-----	-----	-----	300

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DSF53612.DNA	251	-----	-----	-----	-----	100
	310	320	330	340	350	
DSF314.DNA	301	ACCGAACACA	AGGGCGTGT	GGATACTGT	CGGGAGCTG	AACGCCAGGG
DSF536F1.DNA	301	ACCGAACACA	AGGGCGTGT	GGATACTGT	CGGGAGCTG	AACGCCAGGG
DSF536R1.DNA	301	-----	-----	-----	-----	350
DSF53611.DNA	301	-----	-----	-----	-----	350
DSF53612.DNA	301	-----	-----	-----	-----	350
	360	370	380	390	400	
DSF314.DNA	351	CTTTGAAGTG	ACCTACCTGG	ATGTCCAGGA	CGATGGTCTG	CTCAGCCTCG
DSF536F1.DNA	351	CTTTGAAGTG	ACCTACCTGG	ATGTCCAGGA	CGATGGTCTG	CTCAGCCTCG
DSF536R1.DNA	351	-----	-----	-----	-----	400
DSF53611.DNA	351	-----	-----	-----	-----	400
DSF53612.DNA	351	-----	-----	-----	-----	400
	410	420	430	440	450	
DSF314.DNA	401	ATGCCTCAA	GGCTGCCGTG	CGCCCGATA	CCATCCTGGT	GTGGTGATG
DSF536F1.DNA	401	ATGCCTCAA	GGCTGCCGTG	CGCCCGATA	CCATCCTGGT	GTGGTGATG
DSF536R1.DNA	401	-----	-----	-----	-----	450
DSF53611.DNA	401	-----	-----	-----	-----	450
DSF53612.DNA	401	-----	-----	CCTGGT	GTGGTGATG	450
	460	470	480	490	500	
DSF314.DNA	451	ATGGTCAACA	ACGGAGATCGG	CGTCATCCAG	GACATGCCG	CGCTGGCGA
DSF536F1.DNA	451	ATGGTCAACA	ACGGAGATCGG	CGTCATCCAG	GACATGCCG	CGCTGGCGA
DSF536R1.DNA	451	-----	-----	-----	-----	500
DSF53611.DNA	451	-----	-----	-----	-----	500
DSF53612.DNA	451	ATGGTCAACA	ACGGAGATCGG	CGTCATCCAG	GACATGCCG	CGCTGGCGA
	510	520	530	540	550	
DSF314.DNA	501	GATCTGCCGC	GAGAAGGGCA	TCATCTTCCA	CGTGGACCGG	GCCCAGGCCA
DSF536F1.DNA	501	GATCTGCCGC	GAGAAGGGCA	-CATCTTCCA	CGTGGACCGG	GCC-AAGCCA
DSF536R1.DNA	501	-----	-----	-----	-----	550
DSF53611.DNA	501	-----	-----	-----	-C	550
DSF53612.DNA	501	GATCTGCCGC	GAGAAGGGCA	TCATCTTCCA	CGTGGACCGG	GCCCAGGCCA
	560	570	580	590	600	
DSF314.DNA	551	CCGGCAAGGT	CGAGATCGAC	CTGCAGAACG	TGAAGGTGGA	CTGTGATGTCG
DSF536F1.DNA	551	ACGGCAAGGT	CGAGATC-	-----	-----	600
DSF536R1.DNA	551	-----	-----	-----	-----	600
DSF53611.DNA	551	-----	-----	TCGAC	CTGAGAACG	TGAAGGTGGA
DSF53612.DNA	551	CCGGCAAGGT	CGAGATCGAC	CTGCAGAACG	TGAAGGTGGA	CTGTGATGTCG
	610	620	630	640	650	
DSF314.DNA	601	TTCTCGGC	ACAAGACGTA	CGGCCCCAAG	GGCATCGCG	CGCTGTATGT
DSF536F1.DNA	601	-----	-----	-----	-----	650
DSF536R1.DNA	601	-----	-----	-----	-----	650
DSF53611.DNA	601	TTCTCGGC	ACAAGACGTA	CGGCCCCAAG	GGCATCGCG	CGCTGTATGT
DSF53612.DNA	601	TTCTCGGC	ACAAGACGTA	CGGCCCCAAG	GGCATCGCG	CGCTGTATGT
	660	670	680	690	700	
DSF314.DNA	651	GCGCGCAAG	CGCGCGTGC	GCATCGAGGC	GCAGATGCCAC	GGCGCGGGCC
DSF536F1.DNA	651	-----	-----	-----	-----	700
DSF536R1.DNA	651	--GGCGCAAG	CGCGCGTGN	GNATCGAGGC	GCAGATGCCAC	GGCGCGGGCC
DSF53611.DNA	651	GCGCGCAAG	CGCGCGTGC	GCATCGAGGC	GCAGATGCCAC	GGCGCGGGCC
DSF53612.DNA	651	GCGCGCAAG	CGCGCGTGC	GCATCGAGGC	NTAGATGCCAC	GGCGCGGGCC
	710	720	730	740	750	
DSF314.DNA	701	ACGAACGGGG	CTTCCGGTGT	GGCACGCTGG	CCACGCACCA	GATCGTCGGC
DSF536F1.DNA	701	-----	-----	-----	-----	750
DSF536R1.DNA	701	ACGAACGGGG	CTTCCGGTGT	GGCACGNTGG	CCACGCACCA	GATCGTCGGC
DSF53611.DNA	701	ACGAACGGGG	CTTCCGGTGT	GGCACGCTGG	CCACGCACCA	GATCGTCGGC
DSF53612.DNA	701	ACGAACG-	-----	-----	-----	750
	760	770	780	790	800	
DSF314.DNA	751	ATGGGCAGG	CGTCCGCCT	GGCGCGCGAG	GAAATGGGCA	CCGAGAACGA
DSF536F1.DNA	751	-----	-----	-----	-----	800
DSF536R1.DNA	751	ATGGGCAGG	CGTCCGCCT	GGCGCGCGAG	GAAATGGGCA	CCGAGAACGA
DSF53611.DNA	751	ATGGGCAGG	CGTCCGCCT	GGCGCGCGAG	GAAATGGGCA	CCGAGAACGA
DSF53612.DNA	751	-----	-----	-----	-----	800
	810	820	830	840	850	
DSF314.DNA	801	GCGCGTGC	ATGCTGCCCG	ACCGCCTGCT	GGCGGCCCTG	ACGCAGATCG
DSF536F1.DNA	801	-----	-----	-----	-----	850
DSF536R1.DNA	801	GCGCGTGC	ATGCTGCCCG	ACCGCCTGCT	GGCGGCCCTG	ACGCAGATCG
DSF53611.DNA	801	GCGCGTGC	ATGCTGCCCG	ACCGCCTGCT	GGCGGCCCTG	ACGCAGATCG
DSF53612.DNA	801	-----	-----	-----	-----	850

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	860	870	880	890	900	
DSF314.DNA	851 AGGAAGTGTATCTGAAACGGC	ACCATGGAGC	ACCCCGTGCC	GCACAACTG	900	
DSF536F1.DNA	851 -----	-----	-----	-----	900	
DSF536R1.DNA	851 AGGAAGTGTATCTGAAACGGC	ACCATGGAGC	ACCCCGTGCC	GCACAACTG	900	
DSF53611.DNA	851 AGGAAGTGTATCTGAAACGGC	ACCATGGAGC	ACCCCGTGCC	GCACAACTG	900	
DSF53612.DNA	851 -----	-----	-----	-----	900	
	910	920	930	940	950	
DSF314.DNA	901 AACATCAGCT TCAACTATGT	CGAGGGCGAG	TCTCTGATCA	TGGCGATCAA	950	
DSF536F1.DNA	901 -----	-----	-----	-----	950	
DSF536R1.DNA	901 AACATCAGCT TCAACTATGT	CGAGGGCGAG	TCTCTGATCA	TGGCGATCAA	950	
DSF53611.DNA	901 AACATCAGCT TCAACTATGT	CGAGGGCGAG	TCTCTGATCA	TGGCGATCAA	950	
DSF53612.DNA	901 -----	-----	-----	-----	950	
	960	970	980	990	1000	
DSF314.DNA	951 GGAGCTGGCC GTTTCCAGCG	GTTCGGCTG	CACCGCGGCC	AGCCTGGAGC	1000	
DSF536F1.DNA	951 -----	-----	-----	-----	1000	
DSF536R1.DNA	951 GGAGCTGGCC GTTTCCAGCG	GTTCGGCTG	CACCGCGGCC	AGCCTGGAGC	1000	
DSF53611.DNA	951 GGAGCTGGCC GTTTCCAGCG	GTTCGGCTG	CACCGCGGCC	AGCCTGGAGC	1000	
DSF53612.DNA	951 -----	-----	-----	-----	1000	
	1010	1020	1030	1040	1050	
DSF314.DNA	1001 CGTCCTATGT GCTGGCGCG	CTGGGCCGCA	ACGACGAGCT	GGCGCACAGC	1050	
DSF536F1.DNA	1001 -----	-----	-----	-----	1050	
DSF536R1.DNA	1001 CGTCCTATGT GCTGGCGCG	CTGGGCCGCA	ACGACGAGCT	GGCGCACAGC	1050	
DSF53611.DNA	1001 -----	-----	-----	-----	1050	
DSF53612.DNA	1001 -----	-----	-----	-----	1050	
	1060	1070	1080	1090	1100	
DSF314.DNA	1051 TCCATCCGCT TTACCTGGG	CCGCTTCACG	ACCGAACAGG	AAATCGACTT	1100	
DSF536F1.DNA	1051 -----	-----	-----	-----	1100	
DSF536R1.DNA	1051 TCCATCCGCT TTACCTGGG	CCGCTTCACG	ACCGAACAGG	AAATCGACTT	1100	
DSF53611.DNA	1051 -----	-----	-----	-----	1100	
DSF53612.DNA	1051 -----	-----	-----	-----	1100	
	1110	1120	1130	1140	1150	
DSF314.DNA	1101 CACGATCGAA CTGATCAAGA	GTCGTGTCGG	CAAGCTGCGC	GATATGTGCG	1150	
DSF536F1.DNA	1101 -----	-----	-----	-----	1150	
DSF536R1.DNA	1101 CACGATCGAA CTGATCAAGA	GTCGTGTCGG	CAAGCTGCGC	GATATGTGCG	1150	
DSF53611.DNA	1101 -----	-----	-----	-----	1150	
DSF53612.DNA	1101 -----	-----	-----	-----	1150	
	1160	1170	1180	1190	1200	
DSF314.DNA	1151 CCTTGTGGAA AATGGCCCG	GAAGGCATTG	ATCTGAATTTC	CGTGCAGTGG	1200	
DSF536F1.DNA	1151 -----	-----	-----	-----	1200	
DSF536R1.DNA	1151 CCTTGTGGAA AATGGCCCG	GAAGGCATTG	ATCTGAATTTC	CGTGCAGTGG	1200	
DSF53611.DNA	1151 -----	-----	-----	-----	1200	
DSF53612.DNA	1151 -----	-----	-----	-----	1200	
	1210	1220	1230	1240	1250	
DSF314.DNA	1201 GCCGCGCACT GA.....	.....	.....	.....	1250	
DSF536F1.DNA	1201 -----	-----	-----	-----	1250	
DSF536R1.DNA	1201 GCCGCGCACT GA.....	.....	.....	.....	1250	
DSF53611.DNA	1201 -----	-----	-----	-----	1250	
DSF53612.DNA	1201 -----	-----	-----	-----	1250	

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	10	20	30	40	50	
DSFBP314.AMI	1 MSNRPIYLDY	SATTPVDPNV	VEKMPIWLYE	SFGNPASRSH	AFGWEAEDAV	
DSFBP536.AMI	1 MSNRPIYLDY	SATTPVDPNV	VEKMPIWLYE	SFGNPASRSH	AFGWEAEDAV	50
	60	70	80	90	100	50
DSFBP314.AMI	51 EKAREEVAKL	VNADPREIVW	TSGATESDNL	AIKGAAANFYA	ERGKHIITVK	100
DSFBP536.AMI	51 EKAREEVAKL	VNADPREIVW	TSGATESDNL	AIKGAAANFYA	ERGKHIITVK	100
	110	120	130	140	150	
DSFBP314.AMI	101 TEHKAVLDTC	RELERQGFV	TYLDVQDDGL	LSDLDAFKAL	RPDITLVSM	150
DSFBP536.AMI	101 TEHKAVLDTC	RELERQGFV	TYLDVQDDGL	LSDLDAFKAL	RPDITLVSM	150
	160	170	180	190	200	
DSFBP314.AMI	151 MVNNEIGVIQ	DIAALGEICR	EKGIIIFHVDA	AQATGKVEID	LQKLKVDLMS	200
DSFBP536.AMI	151 MVNNEIGVIQ	DIAALGEICR	EKGIIIFHVDA	AQATGKVEID	LQKLKVDLMS	200
	210	220	230	240	250	
DSFBP314.AMI	201 FSAHKTYGPK	GIGALYVRRK	PRVRIEAQMH	GGGHGHERGFRS	GTIATHQIVG	250
DSFBP536.AMI	201 FSAHKTYGPK	GIGALYVRRK	PRVRIEAQMH	GGGHGHERGFRS	GTIATHQIVG	250
	260	270	280	290	300	
DSFBP314.AMI	251 MGEAFRLARE	EMGTENERVR	MILDRILLAGL	TQIEEVYVNG	SMEHRVPHNL	300
DSFBP536.AMI	251 MGEAFRLARE	EMGTENERVR	MILDRILLAGL	TQIEEVYVNG	SMEHRVPHNL	300
	310	320	330	340	350	
DSFBP314.AMI	301 NISFNYVEGE	SLIMAIKELA	VSSGSACTSA	SLEPSYVLRA	LGRNDELAHS	350
DSFBP536.AMI	301 NISFNYVEGE	SLIMAIKELA	VSSGSACTSA	SLEPSYVLRA	LGRNDELAHS	350
	360	370	380	390	400	
DSFBP314.AMI	351 SIRFTLGRFT	TEQEIDFTIE	LIKSRVGKLR	DMSPLWEMAQ	EGIDLNSVQW	400
DSFBP536.AMI	351 SIRFTLGRFT	TEQEIDFTIE	LIKSRVGKLR	DMSPLWEMAQ	EGIDLNSVQW	400
	410	420	430	440	450	
DSFBP314.AMI	401 AAH.....	.....	.....	.....	.....	450
DSFBP536.AMI	401 AAH.....	.....	.....	.....	.....	450
	10	20	30	40	50	
DSF314.DNA	1 ATGAGCAATC	CCCCCATCTA	CCTGGACTAC	TCGGCTACCA	CGCCGGTCGA	
DSF536F1.DNA	1 ATGAGCAATC	CCCCCATCTA	CCTGGACTAC	TCGGCTACCA	CGCCGGTCGA	50
DSF536R1.DNA	1 -----	-----	-----	-----	-----	50
DSF536I1.DNA	1 -----	-----	-----	-----	-----	50
DSF536I2.DNA	1 -----	-----	-----	-----	-----	50
	60	70	80	90	100	
DSF314.DNA	51 CCCGAGCGTG	GTCGAGAAAA	TGATTCCCTG	GTGTGTACGAG	AGTTTCGGCA	100
DSF536F1.DNA	51 CCCGAGCGTG	GTCGAGAAAA	TGATTCCCTG	GTGTGTACGAG	AGTTTCGGCA	100
DSF536R1.DNA	51 -----	-----	-----	-----	-----	100
DSF536I1.DNA	51 -----	-----	-----	-----	-----	100
DSF536I2.DNA	51 -----	-----	-----	-----	-----	100
	110	120	130	140	150	
DSF314.DNA	101 ATCCGGCCTC	GCGCAGCCAC	GCCTTGGCT	GGGAAGCCGA	GGACGGCGTC	150
DSF536F1.DNA	101 ATCCGGCCTC	GCGCAGCCAC	GCCTTGGCT	GGGAAGCCGA	GGACGGCGTC	150
DSF536R1.DNA	101 -----	-----	-----	-----	-----	150
DSF536I1.DNA	101 -----	-----	-----	-----	-----	150
DSF536I2.DNA	101 -----	-----	-----	-----	-----	150
	160	170	180	190	200	
DSF314.DNA	151 GAGAAGGCC	GCGAGGAAGT	TGCCAAGCTG	GTCAACGCG	ATCCGGCGGA	200
DSF536F1.DNA	151 GAGAAGGCC	GCGAGGAAGT	TGCCAAGCTG	GTCAACGCG	ATCCGGCGGA	200
DSF536R1.DNA	151 -----	-----	-----	-----	-----	200
DSF536I1.DNA	151 -----	-----	-----	-----	-----	200
DSF536I2.DNA	151 -----	-----	-----	-----	-----	200
	210	220	230	240	250	
DSF314.DNA	201 GATCGCTCTGG	ACTTCGGCG	CTACCGAGTC	GGACAACCTG	GCCATCAAGG	250
DSF536F1.DNA	201 GATCGCTCTGG	ACTTCGGCG	CTACCGAGTC	GGACAACCTG	GCCATCAAGG	250
DSF536R1.DNA	201 -----	-----	-----	-----	-----	250
DSF536I1.DNA	201 -----	-----	-----	-----	-----	250
DSF536I2.DNA	201 -----	-----	-----	-----	-----	250
	260	270	280	290	300	
DSF314.DNA	251 GCGCGGC	AA TTCTACGCC	GAGCGCGGCC	AGCACATCAT	ATCCGTCAAG	300
DSF536F1.DNA	251 GCGCGGC	AA TTCTACGCC	GAGCGCGGCC	AGCACATCAT	ATCCGTCAAG	300
DSF536R1.DNA	251 -----	-----	-----	-----	-----	300
DSF536I1.DNA	251 -----	-----	-----	-----	-----	300

Figure 7A

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DSF53612.DNA	251	-----	-----	-----	-----	300
	310	320	330	340	350	
DSF314.DNA	301	ACCGAACACA AGGCGGTGCT GGATACTGT CGGGAGCTCG AACGCCAGGG				350
DSF536F1.DNA	301	ACCGAACACA AGGCGGTGCT GGATACTGT CGGGAGCTCG AACGCCAGGG				350
DSF536R1.DNA	301	-----	-----	-----	-----	350
DSF53611.DNA	301	-----	-----	-----	-----	350
DSF53612.DNA	301	-----	-----	-----	-----	350
	360	370	380	390	400	
DSF314.DNA	351	CTTGTAAAGTG ACCTACCTGG ATGTCCAGGA CGATGGTCTG CTCAGCCTCG				400
DSF536F1.DNA	351	CTTGTAAAGTG ACCTACCTGG ATGTCCAGGA CGATGGTCTG CTCAGCCTCG				400
DSF536R1.DNA	351	-----	-----	-----	-----	400
DSF53611.DNA	351	-----	-----	-----	-----	400
DSF53612.DNA	351	-----	-----	-----	-----	400
	410	420	430	440	450	
DSF314.DNA	401	ATGCGTTCAA GGCTGCGCTG CGCCCGATA CCATCCTGGT GTGGTGATG				450
DSF536F1.DNA	401	ATGCGTTCAA GGCTGCGCTG CGCCCGATA CCATCCTGGT GTGGTGATG				450
DSF536R1.DNA	401	-----	-----	-----	-----	450
DSF53611.DNA	401	-----	-----	-----	-----	450
DSF53612.DNA	401	-----	-----	CCTGGT GTGGTGATG	-----	450
	460	470	480	490	500	
DSF314.DNA	451	ATGGTCAACA ACGAGATCGG CGTCATCCAG GACATGCCG CGCTGGGCGA				500
DSF536F1.DNA	451	ATGGTCAACA ACGAGATCGG CGTCATCCAG GACATGCCG CGCTGGGCGA				500
DSF536R1.DNA	451	-----	-----	-----	-----	500
DSF53611.DNA	451	-----	-----	-----	-----	500
DSF53612.DNA	451	ATGGTCAACA ACGAGATCGG CGTCATCCAG GACATGCCG CGCTGGGCGA				500
	510	520	530	540	550	
DSF314.DNA	501	GATCTGCCGC GAGAAGGGCA TCATCTTCCA CGTGGACGCG GCCCAGGCCA				550
DSF536F1.DNA	501	GATCTGCCGC GAGAAGGGCA -CATCTTCCA CGTGGACGCG GCC-AAGCCA				550
DSF536R1.DNA	501	-----	-----	-----	-----	550
DSF53611.DNA	501	-----	-----	-----	-C	550
DSF53612.DNA	501	GATCTGCCGC GAGAAGGGCA TCATCTTCCA CGTGGACGCG GCCCAGGCCA				550
	560	570	580	590	600	
DSF314.DNA	551	CCGGCAAGGT CGAGATCGAC CTGCAAGAAG TGAAGGTGGA CCTGATGTGCG				600
DSF536F1.DNA	551	CCGGCAAGGT CGAGATC-----	-----	-----	-----	600
DSF536R1.DNA	551	-----	-----	-----	-----	600
DSF53611.DNA	551	-----	-----	-----	-----	600
DSF53612.DNA	551	CCGGCAAGGT CGAGATCGAC CTGCAAGAAG TGAAGGTGGA CCTGATGTGCG				600
	610	620	630	640	650	
DSF314.DNA	601	TTCTCGGGCG ACAAGACGTA CGGCCCCAAG GGCATCGGCG CGCTGTATGT				650
DSF536F1.DNA	601	-----	-----	-----	-----	650
DSF536R1.DNA	601	-----	-----	-----	-----	650
DSF53611.DNA	601	TTCTCGGGCG ACAAGACGTA CGGCCCCAAG GGCATCGGCG CGCTGTATGT				650
DSF53612.DNA	601	TTCTCGGGCG ACAAGACGTA CGGCCCCAAG GGCATCGGCG CGCTGTATGT				650
	660	670	680	690	700	
DSF314.DNA	651	GCGCGCGCAAG CGCGCGGTGC GCATCGAGGC CGAGATGCAC GGCGCGCGGC				700
DSF536F1.DNA	651	-----	-----	-----	-----	700
DSF536R1.DNA	651	--GGCGCAAG CGCGCGGTGN GNATCGAGGC CGAGATGCAC GGCGCGCGGC				700
DSF53611.DNA	651	GCGCGCGCAAG CGCGCGGTGC GCATCGAGGC CGAGATGCAC GGCGCGCGGC				700
DSF53612.DNA	651	GCGCGCGCAAG CGCGCGGTGC GCATCGAGGC NTAGATGCAC GGCGCGCGGC				700
	710	720	730	740	750	
DSF314.DNA	701	ACGAACGGGG TTCCCGTGC GGCACGCTGG CCACGCACCA GATCGTCGGC				750
DSF536F1.DNA	701	-----	-----	-----	-----	750
DSF536R1.DNA	701	ACGAACGGGG TTCCCGTGC GGCACGNTGG CCACGCACCA GATCGTCGGC				750
DSF53611.DNA	701	ACGAACGGGG TTCCCGTGC GGCACGCTGG CCACGCACCA GATCGTCGGC				750
DSF53612.DNA	701	ACGAACG-----	-----	-----	-----	750
	760	770	780	790	800	
DSF314.DNA	751	ATGGGCGAGG CGTTCGGCCT GGCACGCGAG GAAATGGGCA CCGAGAACGA				800
DSF536F1.DNA	751	-----	-----	-----	-----	800
DSF536R1.DNA	751	ATGGGCGAGG CGTTCGGCCT GGCACGCGAG GAAATGGGCA CCGAGAACGA				800
DSF53611.DNA	751	ATGGGCGAGG CGTTCGGCCT GGCACGCGAG GAAATGGGCA CCGAGAACGA				800
DSF53612.DNA	751	-----	-----	-----	-----	800
	810	820	830	840	850	
DSF314.DNA	801	GCGCGTGCAG ACCGCTGCT GGCACGCTG ACCGAGATCG				850
DSF536F1.DNA	801	-----	-----	-----	-----	850
DSF536R1.DNA	801	GCGCGTGCAG ACCGCTGCT GGCACGCTG ACCGAGATCG				850
DSF53611.DNA	801	GCGCGTGCAG ACCGCTGCT GGCACGCTG ACCGAGATCG				850
DSF53612.DNA	801	-----	-----	-----	-----	850

Figure 7B

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	860	870	880	890	900	
DSF314.DNA	851 AGGAAGTGT A TGTGAAACGGC AGCATGGAGC ACCCGCTGCC GCACAACCTG					900
DSF536F1.DNA	851 -----					900
DSF536R1.DNA	851 AGGAAGTGT A TGTGAAACGGC AGCATGGAGC ACCCGCTGCC GCACAACCTG					900
DSF53611.DNA	851 AGGAAGTGT A TGTGAAACGGC AGCATGGAGC ACCCGCTGCC GCACAACCTG					900
DSF53612.DNA	851 -----					900
	910	920	930	940	950	
DSF314.DNA	901 AACATCAGCT TCAACTATGT CGAGGGCGAG TCTCTGATCA TGGCGATCAA					950
DSF536F1.DNA	901 -----					950
DSF536R1.DNA	901 AACATCAGCT TCAACTATGT CGAGGGCGAG TCTCTGATCA TGGCGATCAA					950
DSF53611.DNA	901 AACATCAGCT TCAACTATGT CGAGGGCGAG TCTCTGATCA TGGCGATCAA					950
DSF53612.DNA	901 -----					950
	960	970	980	990	1000	
DSF314.DNA	951 GGAGCTGGCC GTTTCAGCG GTTCGGCCTG CACGTCGGCC AGCCTGGAGC					1000
DSF536F1.DNA	951 -----					1000
DSF536R1.DNA	951 GGAGCTGGCC GTTTCAGCG GTTCGGCCTG CACGTCGGCN AGCCTGGAGC					1000
DSF53611.DNA	951 GGAGCTGGCC GTTTCAGCG GTTCGGCCTG CACGTCGGC-----					1000
DSF53612.DNA	951 -----					1000
	1010	1020	1030	1040	1050	
DSF314.DNA	1001 CGTCCTATGT GCTGCGCGCG CTGGGCGCA ACGACGAGCT GGCGCACAGC					1050
DSF536F1.DNA	1001 -----					1050
DSF536R1.DNA	1001 CGTCCTATGT GCTGCGCGCG CTGGGCGCA ACGACGAGCT GGCGCACAGC					1050
DSF53611.DNA	1001 -----					1050
DSF53612.DNA	1001 -----					1050
	1060	1070	1080	1090	1100	
DSF314.DNA	1051 TCCATCCGCT TTACCCCTGGG CCGCTTCACG ACCGAACAGG AAATCGACTT					1100
DSF536F1.DNA	1051 -----					1100
DSF536R1.DNA	1051 TCCATCCGCT TTACCCCTGGG CCGCTTCACG ACCGAACAGG AAATCGACTT					1100
DSF53611.DNA	1051 -----					1100
DSF53612.DNA	1051 -----					1100
	1110	1120	1130	1140	1150	
DSF314.DNA	1101 CACGATCGAA CTGATCAAGA GTCTGTCGG CAAGCTGCC GATATGTCGC					1150
DSF536F1.DNA	1101 -----					1150
DSF536R1.DNA	1101 CACGATCGAA CTGATCAAGA GTCTGTCGG CAAGCTGCC GATATGTCGC					1150
DSF53611.DNA	1101 -----					1150
DSF53612.DNA	1101 -----					1150
	1160	1170	1180	1190	1200	
DSF314.DNA	1151 CGTTGTGGGA AATGGCCCGAG GAAGGCATTG ATCTGAATTTC CGTGCAGTGG					1200
DSF536F1.DNA	1151 -----					1200
DSF536R1.DNA	1151 CGTTGTGGGA AATGGCCCGAG GAAGGCATTG ATCTGAATTTC CGTGCAGTGG					1200
DSF53611.DNA	1151 -----					1200
DSF53612.DNA	1151 -----					1200
	1210	1220	1230	1240	1250	
DSF314.DNA	1201 GCCCGCGCACT GA.....					1250
DSF536F1.DNA	1201 -----					1250
DSF536R1.DNA	1201 GCCCGCGCACT GA.....					1250
DSF53611.DNA	1201 -----					1250
DSF53612.DNA	1201 -----					1250

Figure 7C

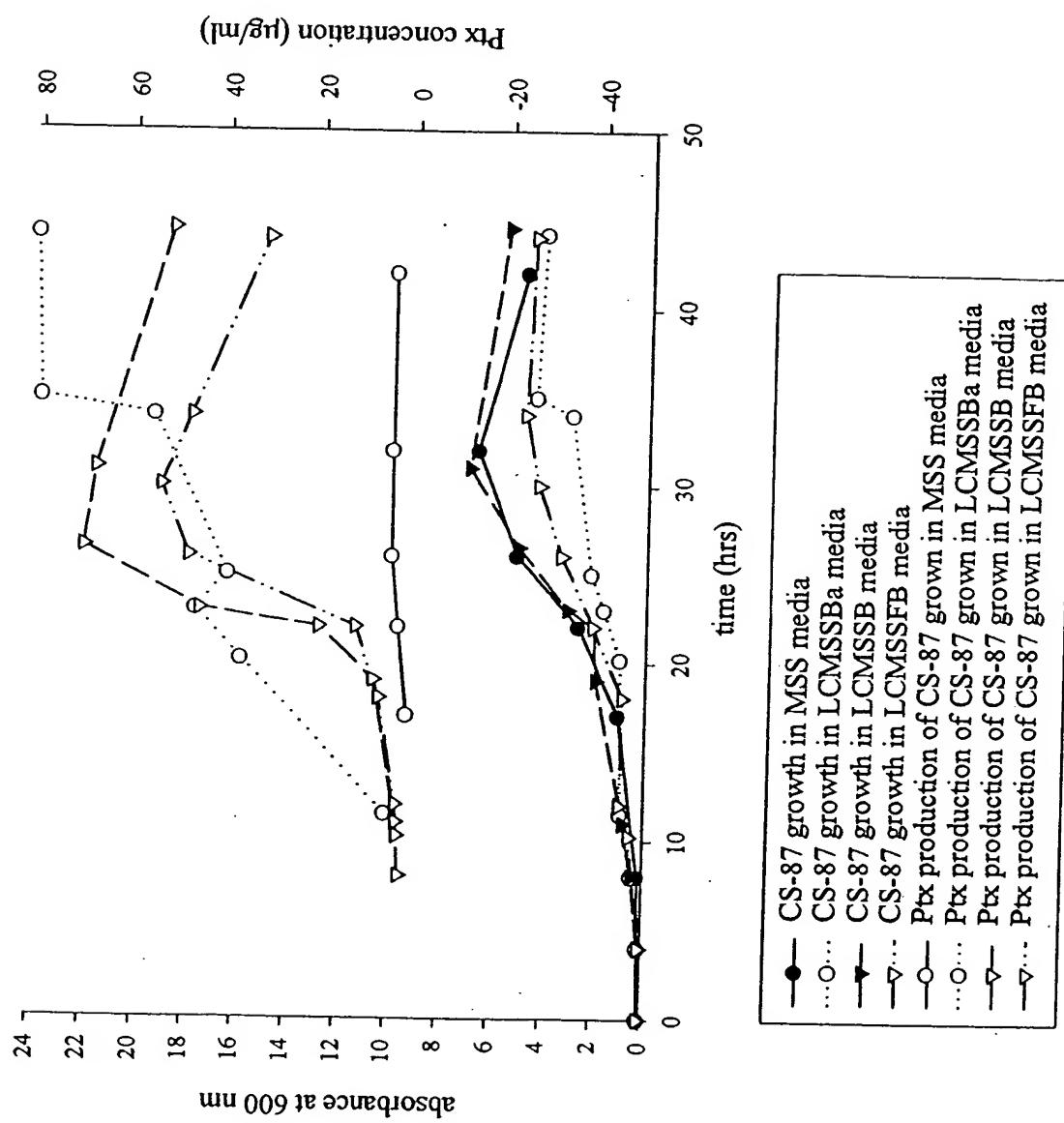


Figure 8A

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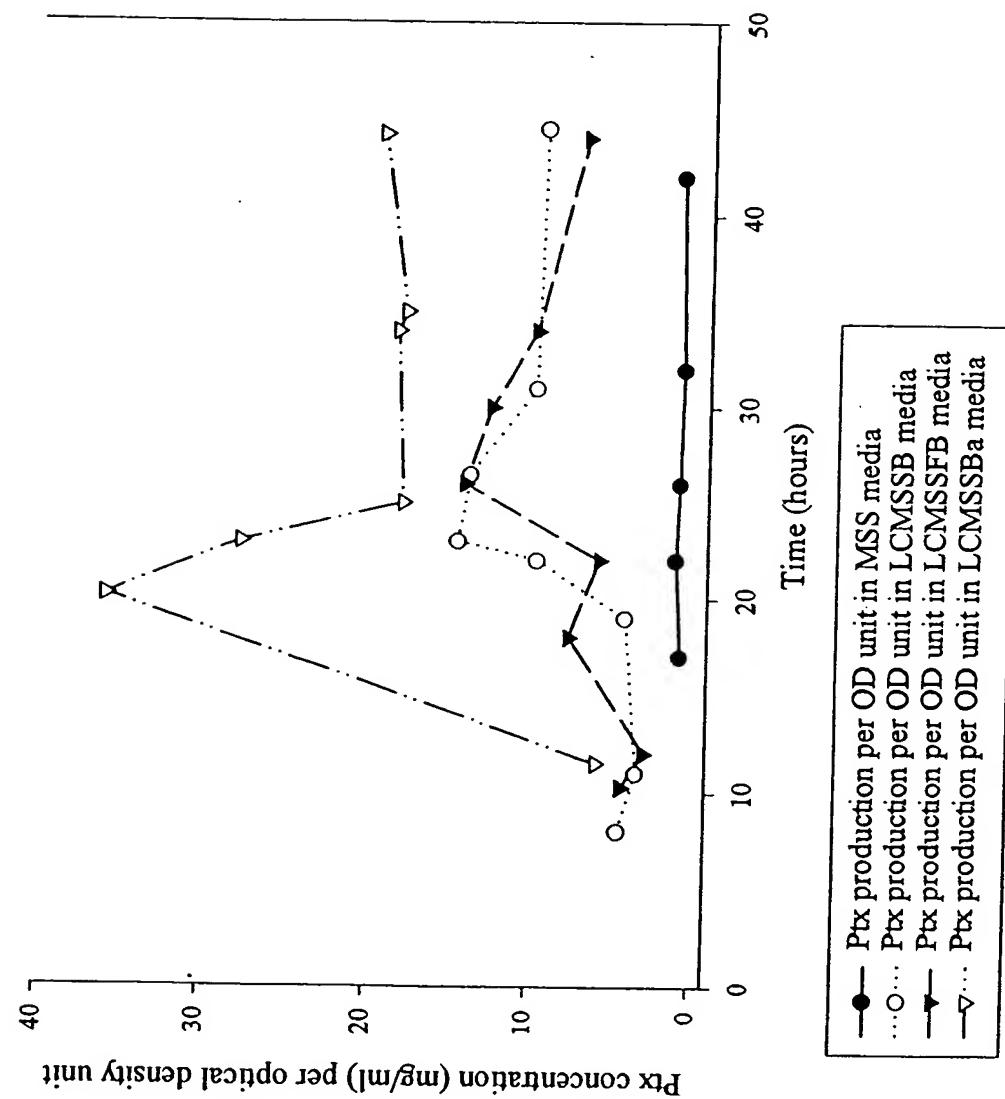


Figure 8B

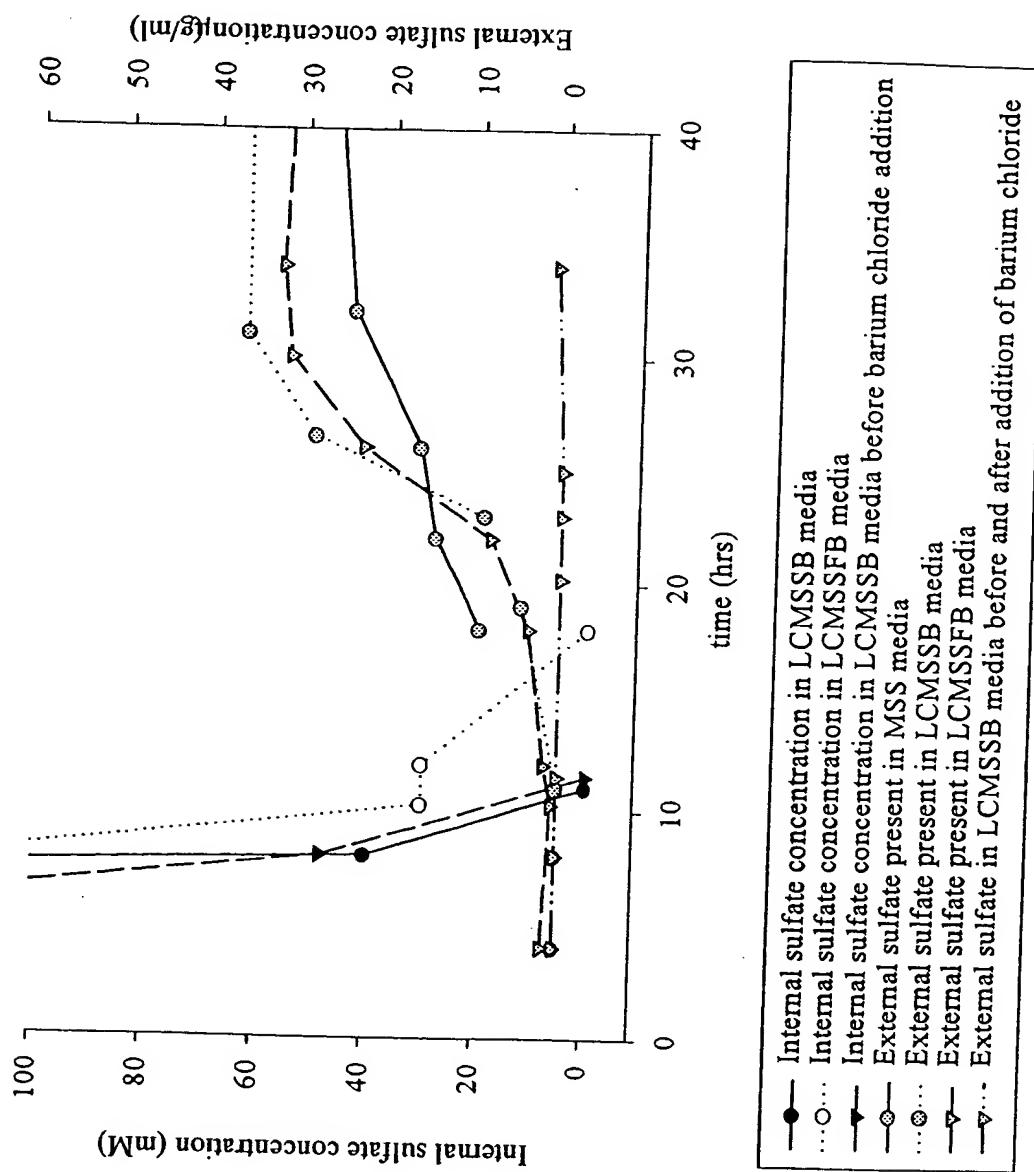


Figure 9